## App Serial # 09/977,053 Exhibit M Friddle et al. Novel Human Membrane Protein and Polynucleotides Encoding the Same

E

Score

## Query= SEQ ID NO:3 (10,716 letters)

Sequences	produ	acing significant alignments:	(bits)	Value
AL158158. AL592463. AL354982.	10.1.9	96779	$\frac{5531}{1053} \\ \underline{470}$	0.0 0.0 e-129
>AL158158	>AL158158.14.1.194835 Length = 194835			
Score = 5531 bits (2790), Expect = 0.0 Identities = 2793/2794 (99%) Strand = Plus / Minus				
Query: 66			111111	
Sbjct: 17	3266 a	gcatacaactggcaggatctttgagagtgaagtgaggtatcagtgtaacccg	ggctata	173207
Query: 67		gtcagtcggaagtcctgtatttgtctgccaagccaatcgccactggcacagt	ĪШШ	
Sbjct: 17	3206 a	gtcagtcggaagtcctgtatttgtctgccaagccaatcgccactggcacagt	gaatccc	: 173147
Query: 67	1	tctgatgtgtgttcctctcgactgtggaaaacctcccccgatccagaatggc		
Sbjct: 17	3146 c	tctgatgtgtgttcctctcgactgtggaaaacctcccccgatccagaatggc	ttcatga	173087
Query: 68	1	aggagaaaactttgaagtagggtccaaggttcagtttttctgtaatgagggt	$H = \overline{1} = \overline{1}$	
Sbjct: 17	3086 a	aggagaaaactttgaagtagggtccaaggttcagtttttctgtaatgagggt	tatgago	173027
Query: 68		tgttggtgacagttcttggacatgtcagaaatctggcaaatggaataagaag	tcaaatc	6946
Sbjct: 17	3026 t	tgttggtgacagttcttggacatgtcagaaatctggcaaatggaataagaag	tcaaatc	172967
Query: 69	1	aaagtgcatgcctgccaagtgcccagagccgccctcttggaaaaccagcta		
Sbjct: 17	2966 c	aaagtgcatgcctgccaagtgcccagagccgccctcttggaaaaccagcta	gtattaa	172907
Query: 70	1	ggagttgaccaccgaggtaggagttgtgacattttcctgtaaagaagggcat	$\Pi \Pi \Pi \Pi$	
Sbjct: 17		ggagttgaccaccgaggtaggagttgtgacattttcctgtaaagaagggcat		172847
Query: 70		aggcccctctgtcctgaaatgcttgccatcccagcaatggaatgactctttc		7126
Sbjct: 17		aggcccctctgtcctgaaatgcttgccatcccagcaatggaatgactctttc		172787 -

Query:	7127	gtaagattgttctttgtaccccacctcccctaatttcctttggtgtccccattccttctt	7186
Sbjct:	172786	gtaagattgttctttgtaccccacctcccctaatttcctttggtgtccccattccttctt	172727
Query:	7187		7246
Sbjct:	172726		172667
Query:	7247	gaaattctaccaccctctgccaacctgatggcacctggagctctccactgccagaatgtg	7306
Sbjct:	172666		172607
Query:	7307	ttccagtagaatgtccccaacctgaggaaatccccaatggaatcattgatgtgcaaggcc	7366
Sbjct:	172606	ttccagtagaatgtccccaacctgaggaaatccccaatggaatcattgatgtgcaaggcc	172547
Query:	7367	ttgcctatctcagcacagctctctatacctgcaagccaggctttgaattggtgggaaata	7426
Sbjct:	172546		172487
Query:	7427	ctaccaccctttgtggagaaaatggtcactggcttggaggaaaaccaacatgtaaagcca	7486
Sbjct:	172486		172427
Query:	7487	ttgagtgcctgaaacccaaggagattttgaatggcaaattctcttacacggacctacact	7546
Sbjct:	172426	ttgagtgcctgaaacccaaggagattttgaatggcaaattctcttacacggacctacact	172367
Query:	7547	atggacagaccgttacctactcttgcaaccgaggctttcggctcgaaggtcccagtgcct	7606
Sbjct:	172366	atggacagaccgttacctactcttgcaaccgaggctttcggctcgaaggtcccagtgcct	172307
Query:	7607	tgacctgtttagagacaggtgattgggatgtagatgccccatcttgcaatgccatccact	7666
Sbjct:	172306	tgacctgtttagagacaggtgattgggatgtagatgccccatcttgcaatgccatccact	172247
Query:	7667	gtgattccccacaacccattgaaaatggttttgtagaaggtgcagattacagctatggtg	7726
Sbjct:	172246	gtgattccccacaacccattgaaaatggttttgtagaaggtgcagattacagctatggtg	172187
Query:	7727	ccataatcatctacagttgcttccctgggtttcaggtggtcggtc	7786
Sbjct:	172186	ccataatcatctacagttgcttccctgggtttcaggtggtcatgccatgcagacct	172127

Query: Sbjct:	gtgaagagtcaggatggtcaagttccatcccaacatgtatgccaatagactgtggcctcc	
Query: Sbjct:	ctcctcatatagattttggagactgtactaaactcaaagatgaccagggatattttgagc	7906 172007
Query: Sbjct:	aagaagacgacatgatggaagttccatatgtgactcctcaccctccttatcatttgggag	7966 171947
Query: Sbjct:	cagtggctaaaacctgggaaaatacaaaggagtctcctgctacacattcatcaaactttc	
Query: Sbjct:	tgtatggtaccatggtttcatacacctgtaatccaggatatgaacttctggggaaccctg	
Query: Sbjct:	tgctgatctgccaggaagatggaacttggaatggcagtgcaccatcctgcatttcaattg	
Query: Sbjct:	aatgtgacttgcctactgctcctgaaaatggctttttgcgttttacagagactagcatgg	
Query: Sbjct:	gaagtgctgtgcagtatagctgtaaacctggacacattctagcaggctctgacttaaggc	
Query: Sbjct:	tttgtctagagaatagaaagtggagtggtgcctccccacgctgtgaagccatttcatgca	
Query: Sbjct:	aaaagccaaatccagtcatgaatggatccatcaaaggaagcaactacacatacctgagca	
Query: Sbjct:	cgttgtactatgagtgtgaccccggatatgtgctgaatggcactgagaggagaacatgcc	

Query: Sbjct:	aggatgacaaaaactgggatgaggatgagccatttgcattcctgtggactgcagttcac	
Query: Sbjct:	ccccagtctcagccaatggccaggtgagaggagacgagtacacattccaaaaagagattg	
Query: Sbjct:	aatacacttgcaatgaagggttcttgcttgagggagccaggagtcgggtttgtcttgcca	
Query: Sbjct:	atggaagttggagtggagccactcccgactgtgtgcctgtcagatgtgccaccccgccac	
Query: Sbjct:	aactggccaatggggtgacggaaggcctggactatggcttcatgaaggaag	
Query: Sbjct:	actgtcatgagggctacatcttgcacggtgctccaaaactcacctgtcagtca	
Query: Sbjct:	actgggatgcagagattcctctctgtaaaccagtcaactgtggacctcctgaagatcttg	
Query: Sbjct:	cccatggtttccctaatggtttttcctttattcatgggggccatatacagtatcagtgct	
Query: Sbjct:	ttcctggttataagctccatggaaattcatcaagaaggtgcctctccaatggctcctgga	
Query: Sbjct:	gtggcagctcaccttcctgccttgcagatgttccacaccagtaattgaatatggaa	
Query: Sbjct:	ctgtcaatgggacagattttgactgtggaaaggcagcccggattcagtgcttcaaaggct	

-

tcaagctcctaggactttctgaaatcacctgtgaagccgatggccagtggagctctgggt 9166 Query: 9107

Sbjct: 170806 tcaagctcctaggactttctgaaatcacctgtgaagccgatggccagtggagctctgggt 170747

Query: 9167 tcccccactgtgaacacacttcttgtggttctcttccaatgataccaaatgcgttcatca 9226 

Sbjct: 170746 tcccccactgtgaacacacttcttgtggttctcttccaatgataccaaatgcgttcatca 170687

Query: 9227 gtgagaccagctcttggaaggaaaatgtgataacttacagctgcaggtctggatatgtca 9286

Sbjct: 170686 gtgagaccagctcttggaaggaaaatgtgataacttacagctgcaggtctggatatgtca 170627

Query: 9287 

Query: 9347 tctgtgagcccttgtcctgtgggtccccaccgtctgtcgccaatgcagtggcaactggag 9406

Sbjct: 170566 tctgtgagcccttgtcctgtgggtccccaccgtctgtcgccaatgcagtggcaactggag 170507

Query: 9407 aggcacacacctatgaaagtgaagtgaaactcag 9440

Sbjct: 170506 aggcacacacctatgaaagtgaagtgaaactcag 170473

Score = 1336 bits (674), Expect = 0.0

Identities = 674/674 (100%)

Strand = Plus / Minus

gctatactcttgctggtcttgacaccattgaatgcctggccgacggcaagtggagtagaa 6034 Query: 5975

Sbjct: 176049 gctatactcttgctggtcttgacaccattgaatgcctggccgacggcaagtggagtagaa 175990

Query: 6035 gtgaccagcagtgcctggctgtctcctgtgatgagccacccattgtggaccacgcctctc 6094 

Sbjct: 175989 gtgaccagcagtgcctggctgtctcctgtgatgagccacccattgtggaccacgcctctc 175930

Query: 6095 cagagactgcccatcggctctttggagacattgcattctactactgctctgatggttaca 6154

Sbjct: 175929 cagagactgcccatcggctctttggagacattgcattctactactgctctgatggttaca 175870

Query: 6155 gcctagcagacaattcccagcttctctgcaatgcccagggcaagtgggtacccccagaag 6214

Sbjct: 175869 gcctagcagacaattcccagcttctctgcaatgcccagggcaagtgggtacccccagaag 175810

Query: 6215 gtcaagacatgccccgttgtatagctcatttctgtgaaaaacctccatcggtttcctata 6274 Sbjct: 175809 gtcaagacatgcccgttgtatagctcatttctgtgaaaaacctccatcggtttcctata 175750 Query: 6275 gcatcttggaatctgtgagcaaagcaaaatttgcagctggctcagttgtgagctttaaat 6334 Sbjct: 175749 gcatcttggaatctgtgagcaaagcaaatttgcagctggctcagttgtgagctttaaat 175690 Query: 6335 gcatggaaggctttgtactgaacacctcagcaaagattgaatgtatgagaggtgggcagt 6394 Sbjct: 175689 gcatggaaggctttgtactgaacacctcagcaaagattgaatgtatgagaggtgggcagt 175630 Query: 6395 ggaacccttcccccatgtccatccagtgcatccctgtgcggtgtggagagccaccaagca 6454 Sbjct: 175629 ggaaccetteccecatgtecatecagtgcatecetgtgeggtgtggagagecaccaagea 175570 Query: 6455 tcatgaatggctatgcaagtggatcaaactacagttttggagccatggtggcttacagct 6514 Sbjct: 175569 tcatgaatggctatgcaagtggatcaaactacagttttggagccatggtggcttacagct 175510 Query: 6515 gcaacaaggggttctacatcaaaggggaaaagaagagcacctgcgaagccacagggcagt 6574 Sbjct: 175509 gcaacaaggggttctacatcaaaggggaaaagaagagcacctgcgaagccacagggcagt 175450 Query: 6575 ggagtagtcctataccgacgtgccacccggtatcttgtggtgaaccacctaaggttqaqa 6634 Sbjct: 175449 ggagtagtcctataccgacgtgccacccggtatcttgtggtgaaccacctaaggttgaga 175390 Query: 6635 atggctttctggag 6648 Sbjct: 175389 atggctttctggag 175376 Score = 446 bits (225), Expect = e-121Identities = 228/229 (99%) Strand = Plus / Minus Query: 9438 cagatgtctggaaggttatacgatggatacagatacagatacattcacctgtcagaaaga 9497 Sbjct: 168868 cagatgtctggaaggttatacgatggatacagatacagatacattcacctgtcagaaaga 168809

tggtcgctggttccctgagagaatctcctgcagtcctaaaaaatgtcctctcccggaaaa 9557

Sbjct: 168808 tggtcgctggttccctgagagaatctcctgcagtcctaaaaaatgtcctctcccggaaaa 168749

Query: 9498

Query: 9558 cataacacatatacttgttcatggggacgatttcagtgtgaataggcaagtttctgtgtc 9617

Sbjct: 168748 cataacacatatacttgtacatggggacgatttcagtgtgaataggcaagtttctgtgtc 168689

Query: 9618 atgtgcagaagggtatacctttgagggagttaacatatcagtatgtcag 9666

Sbjct: 168688 atgtgcagaagggtatacctttgagggagttaacatatcagtatgtcag 168640

Score = 387 bits (195), Expect = e-103

Identities = 195/195 (100%)

Strand = Plus / Minus

Query: 5613 taggtgtaataaaggatatactctggccggtgataaagaatcatcctgtcttgctaacag 5672

Sbjct: 193649 taggtgtaataaaggatatactctggccggtgataaaggaatcatcctgtcttgctaacag 193590

Query: 5673 ttcttggagtcattcccctctgtgtgtgtaaccagtgaagtgttctagtccggaaaatat 5732

Sbjct: 193589 ttcttggagtcattcccctcctgtgtgtgaaccagtgaagtgttctagtccggaaaatat 193530

Query: 5733 aaataatggaaaatatattttgagtgggcttacctacctttctactgcatcatattcatg 5792

Sbjct: 193529 aaataatggaaaatatattttgagtgggcttacctacctttctactgcatcatattcatg 193470

Query: 5793 cgatacaggatacag 5807

Sbjct: 193469 cgatacaggatacag 193455

Score = 355 bits (179), Expect = 4e-94

Identities = 179/179 (100%)

Strand = Plus / Minus

Query: 5352 agaacctataaaatgtaaggctccaggaaatccggaaaatggccactcctcaggtgagat 5411

Sbjct: 194762 agaacctataaaatgtaaggctccaggaaatccggaaaatggccactcctcaggtgagat 194703

Query: 5472 aaccaaaatcacatgtttggagtctggagaatggaatcatctaataccatattgtaaag 5530

Sbjct: 194642 aaccaaaatcacatgtttggagtctggagaatggaatcatctaataccatattgtaaag 194584

Score = 351 bits (177), Expect = 6e-93
Identities = 177/177 (100%)
Strand = Plus / Minus

Query: 10061 caaatccatgccctgttccttttgtgattcccgagaatgctctgctgtctgaaaaggagt 10120

Sbjct: 150387 caaatccatgccctgttccttttgtgattcccgagaatgctctgctgtctgaaaaggagt 150328

Query: 10121 tttatgttgatcagaatgtgtccatcaaatgtagggaaggttttctgctgcagggccacg 10180

Sbjct: 150327 tttatgttgatcagaatgtgtccatcaaatgtagggaaggttttctgctgcagggccacg 150268

Query: 10181 gcatcattacctgcaaccccgacgagacgtggacacagacaagcgccaaatgtgaaa 10237

Sbjct: 150267 gcatcattacctgcaaccccgacgagacgtggacacagacaagcgccaaatgtgaaa 150211

Score = 349 bits (176), Expect = 2e-92
Identities = 176/176 (100%)
Strand = Plus / Minus

Query: 9885 agagaccaggtgtgaaactccacttgaatttctcaatgggaaagctgacattgaaaacag 9944

Sbjct: 151773 agagaccaggtgtgaaactccacttgaatttctcaatgggaaagctgacattgaaaacag 151714

Query: 9945 gacgactggacccaacgtggtatattcctgcaacagaggctacagtcttgaagggccatc 10004

Sbjct: 151713 gacgactggacccaacgtggtatattcctgcaacagaggctacagtcttgaagggccatc 151654

Query: 10005 tgaggcacactgcacagaaaatggaacctggagccacccagtccctctctgcaaac 10060

Sbjct: 151653 tgaggcacactgcacagaaaatggaacctggagccacccagtccctctctgcaaac 151598

Score = 339 bits (171), Expect = 2e-89
Identities = 171/171 (100%)

Strand = Plus / Minus

Query: 5805 cagcttacagggcccttccattattgaatgcacggcttctggcatctgggacagagcgcc 5864

Sbjct: 192074 cagcttacagggcccttccattattgaatgcacggcttctggcatctgggacagagcgcc 192015

Query: 5865 acctgcctgtcacctcgtcttctgtggagaaccacctgccatcaaagatgctgtcattac 5924

Sbjct: 192014 acctgcctgtcacctcgtcttctgtggagaaccacctgccatcaaagatgctgtcattac 191955

Query: 5925 ggggaataacttcactttcaggaacaccgtcacttacacttgcaaagaagg 5975

Sbjct: 191954 ggggaataacttcactttcaggaacaccgtcacttacacttgcaaagaagg 191904

Score = 339 bits (171), Expect = 2e-89

Identities = 171/171 (100%)

Strand = Plus / Minus

Query: 10238 aaatctcatgtggtccaccagctcacgtagaaaatgcaattgctcgaggcgtacattatc 10297

Sbjct: 143830 aaatctcatgtggtccaccagctcacgtagaaaatgcaattgctcgaggcgtacattatc 143771

Query: 10298 aatatggagacatgatcacctactcatgttacagtggatacatgttggagggtttcctga 10357

Sbjct: 143770 aatatggagacatgatcacctactcatgttacagtggatacatgttggagggtttcctga 143711

Query: 10358 ggagtgtttgtttagaaaatggaacatggacatcacctcctatttgcagag 10408

Sbjct: 143710 ggagtgtttgtttagaaaatggaacatggacatcacctcctatttgcagag 143660

Score = 315 bits (159), Expect = 3e-82

Identities = 159/159 (100%)

Strand = Plus / Minus

Query: 9665 agcttgatggaacctgggagccaccattctccgatgaatcttgcagtccagtttcttgtg 9724

Sbjct: 165324 agcttgatggaacctgggagccaccattctccgatgaatcttgcagtccagtttcttgtg 165265

Query: 9725 ggaaacctgaaagtccagaacatggatttgtggttggcagtaaatacacctttgaaagca 9784

Sbjct: 165264 ggaaacctgaaagtccagaacatggatttgtggttggcagtaaatacacctttgaaagca 165205

Query: 9785 caattatttatcagtgtgagcctggctatgaactagagg 9823

Sbjct: 165204 caattatttatcagtgtgagcctggctatgaactagagg 165166

Score = 194 bits (98), Expect = 8e-46

Identities = 98/98 (100%)

Strand = Plus / Minus

Query: 10407 agctgtctgtcgatttccatgtcagaatgggggcatctgccaaacgcccaaatgcttgttc 10466

Sbjct: 141681 agctgtctgtcgatttccatgtcagaatgggggcatctgccaacgcccaaatgcttgttc 141622

Query: 10467 ctgtccagagggctggatggggcgcctctgtgaagaac 10504

Sbjct: 141621 ctgtccagagggctggatggggcgcctctgtgaagaac 141584

Score = 194 bits (98), Expect = 8e-46

Identities = 98/98 (100%)
Strand = Plus / Minus

Query: 10598 cagctgtttgccagtctccctgcttaaatggtggaaaatgtgtaagaccaaaccgatgtc 10657

Sbjct: 134332 cagctgtttgccagtctccctgcttaaatggtggaaaatgtgtaagaccaaaccgatgtc 134273

Query: 10658 actgtctttcttcttggacgggacataactgttccagg 10695

Sbjct: 134272 actgtctttcttcttggacgggacataactgttccagg 134235

Score = 190 bits (96), Expect = 1e-44

Identities = 96/96 (100%)
Strand = Plus / Minus

Query: 10505 caatctgcattcttccctgtctgaacggaggtcgctgtgtggccccttaccagtgtgact 10564

Sbjct: 139776 caatctgcattcttccctgtctgaacggaggtcgctgtgtgggccccttaccagtgtgact 139717

Query: 10565 gcccgcctggctggacggggtctcgctgtcatacag 10600

Sbjct: 139716 gcccgcctggctggacggggtctcgctqtcatacaq 139681

Score = 180 bits (91), Expect = 1e-41

Identities = 94/95 (98%)
Strand = Plus / Minus

Query: 5523 ttgtaaagctgtttcatgtggtaaaccggctattccagaaaatggttgcattgaggagtt 5582

Sbjct: 194323 ttgttaagctgtttcatgtggtaaaccggctattccagaaaatggttgcattgaggagtt 194264

Query: 5583 agcatttacttttggcagcaaagtgacatataggt 5617

Sbjct: 194263 agcatttacttttggcagcaaagtgacatataggt 194229

Score = 131 bits (66), Expect = 1e-26
Identities = 66/66 (100%)
Strand = Plus / Minus

Query: 9821 aggggaacagggaacgtgtctgccaggagaacagtcgagtggagtggcaatat 9880

Sbjct: 153902 aggggaacagggaacgtgtctgccaggagaacagtcgagtggagtggcaatat 153843

Query: 9881 gcaaag 9886

Sbjct: 153842 gcaaag 153837

Score = 56.0 bits (28), Expect = 5e-04

Identities = 28/28 (100%)
Strand = Plus / Minus

Query: 10689 ttccaggaaaaggaggactgggttttaa 10716

Sbjct: 130879 ttccaggaaaaggaggactgggttttaa 130852

>AL592463.10.1.96779

Length = 96779

Score = 1053 bits (531), Expect = 0.0

Identities = 531/531 (100%)

Strand = Plus / Minus

Query: 1 atgtggcctcgcctggccttttgttgctggggtctggcgctcgtttcgggctgggcgacc 60

Sbjct: 33941 atgtggcctcgcctggccttttgttgctggggtctggcgctcgtttcgggctgggcgacc 33882

Query: 61 tttcagcagatgtccccgtcgcgcaatttcagcttccgcctcttccccgagaccgcgccc 120

Sbjct: 33881 tttcagcagatgtccccgtcgcgcaatttcagcttccgcctcttccccgagaccgcgccc 33822

Query: 121 ggggccccgggagtatccccgcgcccgctcctggcgacgaagcggggggagcaga 180

Sbjct: 33821 ggggcccccgggagtatccccgcgccgcccgctcctggcgacgaagcgggggagcaga 33762

Query: 181 gtggagcggctgggccaggcgttccggcgacgcgtgcggctgctgcgggagctcagcgag 240

Sbjct: 33761 gtggagcggctgggccaggcgttccggcgacgcgtgctgctgctgcgggagctcagcgag 33702

Query: 241 cgcctggagcttgtcttcctggtggatgattcgtccagcgtgggcgaagtcaacttccgc 300 Sbjct: 33701 cgcctggagcttgtcttcctggtggatgattcgtccagcgtgggcgaagtcaacttccgc 33642 Query: 301 agcgagctcatgttcgtccgcaagctgctgtccgacttccccgtggtgcccacggccacg 360 Sbjct: 33641 agcgagctcatgttcgtccgcaagctgctgtccgacttccccgtggtgcccacggccacg 33582 Query: 361 cgcgtggccatcgtgaccttctcgtccaagaactacgtggtgccgcggtcgattacatc 420 Sbjct: 33581 cgcgtggccatcgtgaccttctcgtccaagaactacgtggtgccgcgcgtcgattacatc 33522 Query: 421 tccacccgccgcgcgccagcacaagtgcgcgctgctcctccaagagatccctgccatc 480 Sbjct: 33521 tccacccgccgcgcgccagcacaagtgcgcgctgctcctccaagagatccctgccatc 33462 Query: 481 tcctaccgaggtggcgcacctacaccaagggcgccttccagcaagccgcg 531 Sbjct: 33461 tcctaccgaggtggcgcacctacaccaagggcgccttccagcaagccgcg 33411 Score = 509 bits (257), Expect = e-140Identities = 257/257 (100%) Strand = Plus / Minus Query: 531 gcaaattcttcttcatgctagagaaaactcaacaaaagttgtatttctcatcactgatgg 590 Sbjct: 4503 gcaaattcttcttcatgctagagaaaactcaacaaaagttgtatttctcatcactgatgg 4444 Query: 591 atattccaatgggggagaccctagaccaattgcagcgtcactgcgagattcaggagtgga 650 Sbjct: 4443 atattccaatgggggagaccctagaccaattgcagcgtcactgcgagattcaggagtgga 4384 Query: 651 gatcttcacttttggcatatggcaagggaacattcgagagctgaatgacatggcttccac 710 Sbjct: 4383 gatcttcacttttggcatatggcaagggaacattcgagagctgaatgacatggcttccac 4324 cccaaaggaggagcactgttacctgctacacagttttgaagaatttgaggctttagctcg 770 Query: 711 Sbjct: 4323 cccaaaggaggagcactgttacctgctacacagttttgaagaatttgaggctttagctcg 4264 Query: 771 ccgggcattgcatgaag 787 Sbjct: 4263 ccgggcattgcatgaag 4247

Score = 355 bits (179), Expect = 4e-94
Identities = 179/179 (100%)
Strand = Plus / Minus

>AL354982.12.1.119077 Length = 119077

Score = 470 bits (237), Expect = e-129
Identities = 237/237 (100%)
Strand = Plus / Minus

Sbjct: 42895 caaaaaaggcttccccttctgcagaccaggctcagtgctgagagggcgtatgtgtg 42839

Score = 406 bits (205), Expect = e-109
Identities = 205/205 (100%)
Strand = Plus / Minus

Query: 4259 cagaacagtctacaggctttaacctggattttgaagtttctggcatctatggatatgtca 4318

Sbjct: 17516 cagaacagtctacaggctttaacctggattttgaagtttctggcatctatggatatgtca 17457

Query: 4319 tgctagatggcatgctcccatctctccatgctctaacctgtaccttctggatgaaatcct 4378

Sbjct: 17456 tgctagatggcatgctccatctctccatgctctaacctgtaccttctggatgaaatcct 17397

Query: 4379 ctgacgacatgaactatggaacaccaatctcctatgcagttgataacggcagcgacaata 4438

Sbjct: 17396 ctgacgacatgaactatggaacaccaatctcctatgcagttgataacggcagcgacaata 17337

Query: 4439 ccttgctcctgactgattataacgg 4463

Sbjct: 17336 ccttgctcctgactgattataacgg 17312

Score = 404 bits (204), Expect = e-109

Identities = 204/204 (100%)

Strand = Plus / Minus

Query: 3900 aggcctgcattgtgaaacagaagtcaatgaatgccagtcaaacccatgcttaaataatgc 3959

Sbjct: 21737 aggcctgcattgtgaaacagaagtcaatgaatgccagtcaaacccatgcttaaataatgc 21678

Query: 3960 agtctgtgaagaccaggttgggggattcttgtgcaaatgcccacctggatttttgggtac 4019

Sbjct: 21677 agtctgtgaagaccaggttgggggattcttgtgcaaatgcccacctggatttttgggtac 21618

Query: 4020 ccgatgtggaaagaacgtcgatgagtgtctcagtcagccatgcaaaaatggagctacctg 4079

Query: 4080 taaagacggtgccaatagcttcag 4103

Sbjct: 21557 taaagacggtgccaatagcttcag 21534

Score = 394 bits (199), Expect = e-106
Identities = 199/199 (100%)
Strand = Plus / Minus

Query: 1483 gagcgccactgttccacctttcagatgcccaaagatgtcatcatatccccccacaactgt 1542

Sbjct: 70714 gagcgccactgttccacctttcagatgcccaaagatgtcatcatatccccccacaactgt 70655

Query: 1543 ggcaagcagccaaatttgggacgatctgctatgtaagttgccgccaagggttcatt 1602

Sbjct: 70654 ggcaagcagccagatttgggacgatctgctatgtaagttgccgccaagggttcatt 70595

Query: 1603 ttatctggagtcaaagaaatgctgagatgtaccacttctggaaaatggaatgtcggagtt 1662

Sbjct: 70594 ttatctggagtcaaagaaatgctgagatgtaccacttctggaaaatggaatgtcggagtt 70535

Query: 1663 caggcagctgtgtgtaaag 1681

Sbjct: 70534 caggcagctgtgtgtaaag 70516

Score = 391 bits (197), Expect = e-105

Identities = 197/197 (100%)

Strand = Plus / Minus

Query: 2169 aggttctccctgtgaaattccattcacacctgtaaatggggattttatatgcactccaga 2228

Sbjct: 52913 aggttctccctgtgaaattccattcacacctgtaaatggggattttatatgcactccaga 52854

Query: 2229 taatactggagtcaactgtacattaacttgcttggagggctatgatttcacagaagggtc 2288

Sbjct: 52853 taatactggagtcaactgtacattaacttgcttggagggctatgatttcacagaagggtc 52794

Query: 2289 tactgacaagtattattgtgcttatgaagatggcgtctggaaaccaacatataccactga 2348

Sbjct: 52793 tactgacaagtattattgtgcttatgaagatggcgtctggaaaccaacatataccactga 52734

Query: 2349 atggccagactgtgcca 2365

Sbjct: 52733 atggccagactgtgcca 52717

Score = 387 bits (195), Expect = e-103 Identities = 195/195 (100%) Strand = Plus / Minus

Query: 5613 taggtqtaataaaggatatactctgqccqqtqataaaqaatcatcctqtcttqctaacaq 5672

Sbjct: 812 taggtgtaataaaggatatactctggccggtgataaagaatcatcctgtcttgctaacag 753

Query: 5673 ttcttggagtcattcccctcctgtgtgtgaaccagtgaagtgttctagtccggaaaatat 5732

Sbjct: 752 ttcttggagtcattcccctcctgtgtgtgaaccagtgaagtgttctagtccggaaaatat 693

Query: 5733 aaataatggaaaatatattttgagtgggcttacctacctttctactgcatcatattcatg 5792

Sbjct: 692 aaataatggaaaatatattttgagtgggcttacctacctttctactgcatcatattcatg 633

Query: 5793 cgatacaggatacag 5807

11111111111111

Sbjct: 632 cgatacaggatacag 618

Score = 361 bits (182), Expect = 6e-96

Identities = 182/182 (100%)

Strand = Plus / Minus

Query: 1302 agtaagaacatgtcctcatctccgccagccgaaacatggccacatcagctgttctacaaq 1361

Sbjct: 74694 agtaagaacatgtcctcatctccgccagccgaaacatggccacatcagctgttctacaag 74635

Query: 1362 ggaaatgttatataagacaacatgtttggttgcctgtgatgaagggtacagactagaagg 1421

Sbjct: 74634 ggaaatgttatataagacaacatgtttggttgcctgtgatgaagggtacagactagaagg 74575

Query: 1422 cagtgataagcttacttgtcaaggaaacagccagtgggatgggccagaaccccggtgtgt 1481

Sbjct: 74574 cagtgataagcttacttgtcaaggaaacagccagtgggatgggccagaaccccggtgtgt 74515

Query: 1482 gg 1483

Sbjct: 74514 gg 74513

Score = 357 bits (180), Expect = 9e-95
Identities = 180/180 (100%)
Strand = Plus / Minus

Query: 1124 ttgtccactgccctgccctgaagcctcccgaaaatggttactttatccaaaacacttgca 1183

Sbjct: 84580 ttgtccactgccctgaagcctcccgaaaatggttactttatccaaaacacttgca 84521

Query: 1184 acaaccacttcaatgcagcctgtggggtccgatgtcaccctggatttgatcttgtgggaa 1243

Sbjct: 84520 acaaccacttcaatgcagcctgtggggtccgatgtcaccctggatttgatcttgtgggaa 84461

Query: 1244 gcagcatcatcttatgtctacccaatggtttgtggtccggttcagagagctactgcagag 1303

Sbjct: 84460 gcagcatcatcttatgtctacccaatggtttgtggtccggttcagagagctactgcagag 84401

Score = 355 bits (179), Expect = 4e-94 Identities = 179/179 (100%)

Strand = Plus / Minus

Query: 786 agatctaccttctgggagttttattcaagatgatatggtccactgctcatatctttgtga 845

Sbjct: 117768 agatctaccttctgggagttttattcaagatgatatggtccactgctcatatctttgtga 117709

Query: 906 ttttgagtgcatctgtgaaaaggggtattacgggaaaggtctgcagtatgaatgcacag 964

Sbjct: 117648 ttttgagtgcatctgtgaaaaggggtattacgggaaaggtctgcagtatgaatgcacag 117590

Score = 355 bits (179), Expect = 4e-94

Identities = 179/179 (100%)

Strand = Plus / Minus

Query: 4463 gctgggttctttatgtgaatggcagggaaaagataacaaactgtccctcggtgaatgatg 4522

Sbjct: 15196 gctgggttctttatgtgaatggcagggaaaagataacaaactgtccctcggtgaatgatg 15137

Query: 4523 gcagatggcatcatattgcaatcacttggacaagtgccaatggcatctggaaagtctata 4582

Sbjct: 15136 gcagatggcatcatattgcaatcacttggacaagtgccaatggcatctggaaagtctata 15077

Query: 4583 tcgatgggaaattatctgacggtggtgctggcctctctgttggtttgcccatacctggt 4641

Sbjct: 15076 tcgatgggaaattatctgacggtggtgctggcctctctgttggtttgcccatacctggt 15018

Score = 347 bits (175), Expect = 9e-92

Identities = 178/179 (99%)

Strand = Plus / Minus

Query: 5352 agaacctataaaatgtaaggctccaggaaatccggaaaatggccactcctcaggtgagat 5411

Sbjct: 1927 agaacctataaaatgtaaggctccaggaaatccggaaaatggccactcctcaggtgagat 1868

Query: 5472 aaccaaaatcacatgtttggagtctggagaatggaatcatctaataccatattgtaaag 5530

Sbjct: 1807 aaccaaaatcacatgtttggagtctggagaatggaatcatctaataccatattgtaaag 1749

Score = 345 bits (174), Expect = 4e-91

Identities = 174/174 (100%)

Strand = Plus / Minus

Query: 5060 gcattagctgtggggtgccacctcctttggagaatggcttccattcagccgatgacttct 5119

Sbjct: 4110 gcattagctgtggggtgccacctcctttggagaatggcttccattcagccgatgacttct 4051

Query: 5180 ggatgttctgtacagataatgggagctggaacggcgtttcaccatcctgccttg 5233

Sbjct: 3990 ggatgttctgtacagataatgggagctggaacggcgtttcaccatcctgccttg 3937

Score = 343 bits (173), Expect = 1e-90

Identities = 173/173 (100%)

Strand = Plus / Minus

Query: 4888 gattgcccacgcttaggagggtcagtgcctcatctgagaactgcatctgaagatttaaag 4947

Sbjct: 5982 gattgcccacgcttaggagggtcagtgcctcatctgagaactgcatctgaagatttaaag 5923

Sbjct: 5922 ccaggttccaaagtcaatctgttctgtgatccaggcttccagctggtcgggaaccctgtg 5863 Query: 5008 cagtactgtctgaatcaaggacagtggacacaaccacttcctcactgtgaacg 5060 Sbjct: 5862 cagtactgtctgaatcaaggacagtggacacaaccacttcctcactgtgaacg 5810 Score = 329 bits (166), Expect = 2e-86 Identities = 166/166 (100%) Strand = Plus / Minus Query: 2599 ggaccaggtggctggggtgcagctaataggctggattactcttacgatgacttcctggac 2658 Sbjct: 43799 ggaccaggtggctggggtgcagctaataggctggattactcttacgatgacttcctggac 43740 Query: 2659 actgtgcaagaaacagccacaagcatcggcaatgccaagtcctcacggattaaaagaagt 2718 Sbjct: 43739 actgtgcaagaaacagccacaagcatcggcaatgccaagtcctcacggattaaaagaagt 43680 Query: 2719 gccccattatctgactataaaattaagttaatttttaacatcacag 2764 Sbjct: 43679 gccccattatctgactataaaattaagttaatttttaacatcacag 43634 Score = 329 bits (166), Expect = 2e-86 Identities = 166/166 (100%) Strand = Plus / Minus Query: 3321 agttccttgtccagaaggaaaattctcgcgttctgggttaatgccctgtcacccatgtcc 3380 Sbjct: 30590 agttccttgtccagaaggaaaattctcgcgttctgggttaatgccctgtcacccatgtcc 30531 Query: 3381 tcgtgactattaccaacctaatgcagggaaggccttctgcctggcctgtcccttttatgg 3440 Sbjct: 30530 tcgtgactattaccaacctaatgcagggaaggccttctgcctggcctgtcccttttatgg 30471 Query: 3441 aactaccccattcgctggttccagatccatcacagaatgttcaagt 3486 Sbjct: 30470 aactaccccattcgctggttccagatccatcacagaatgttcaagt 30425

Query: 4948 ccaggttccaaagtcaatctgttctgtgatccaggcttccagctggtcgggaaccctgtg 5007

Score = 325 bits (164), Expect = 3e-85
Identities = 164/164 (100%)
Strand = Plus / Minus

Query: 3159 agctcagtgtaaacaaggcacctactcatacagtggacttgagacttgtgaatcgtgtcc 3218

Sbjct: 37503 agctcagtgtaaacaaggcacctactcatacagtggacttgagacttgtgaatcgtgtcc 37444

Query: 3219 actgggcacttatcagccaaaatttggttcccggagctgcctctcgtgtccagaaaacac 3278

Query: 3279 ctcaactgtgaaaagaggagccgtgaacatttctgcatgtggag 3322

Sbjct: 37383 ctcaactgtgaaaagaggagccgtgaacatttctgcatgtggag 37340

Score = 325 bits (164), Expect = 3e-85

Identities = 164/164 (100%)

Strand = Plus / Minus

Query: 960 cacagcttgcccatcggggacatacaaacctgaaggctcaccaggaggaatcagcagttg 1019

Sbjct: 85586 cacagcttgcccatcggggacatacaaacctgaaggctcaccaggaggaatcagcagttg 85527

Query: 1020 cattccatgtcctgatgaaaatcacacctctccacctggaagcacatcccctgaagactg 1079

Sbjct: 85526 cattccatgtcctgatgaaaatcacacctctccacctggaagcacatcccctgaagactg 85467

Query: 1080 tgtctgcagagagggatacagggcatctggccagacctgtgaac 1123

Sbjct: 85466 tgtctgcagaggggatacagggcatctggccagacctgtgaac 85423

Score = 323 bits (163), Expect = 1e-84

Identities = 163/163 (100%)

Strand = Plus / Minus

Query: 2998 gtcaattgccctttgggaacctattataatctggaacatttcacctgtgaaagctgccgg 3057

Sbjct: 40577 gtcaattgccctttgggaacctattataatctggaacatttcacctgtgaaagctgccgg 40518

Query: 3058 atcggatcctatcaagatgaagaagggcaacttgagtgcaagctttgcccctctgggatg 3117

Sbjct: 40517 atcggatcctatcaagatgaagaagggcaacttgagtgcaagctttgcccctctgggatg 40458

Query: 3118 tacacggaatatatccattcaagaaacatctctgattgtaaag 3160

Sbjct: 40457 tacacggaatatatccattcaagaaacatctctgattgtaaag 40415

Score = 315 bits (159), Expect = 3e-82

Identities = 162/163 (99%)
Strand = Plus / Minus

Query: 4099 ttcagatgcctgtgtgcagctggcttcacaggatcacactgtgaattgaacatcaatgaa 4158

Sbjct: 18537 ttcagatgcctgtgtgcagctggcttcacaggatcacactgtgaattgaacatcaatgaa 18478

Query: 4159 tgtcagtctaatccatgtagaaatcaggccacctgtgtgggatgaattaaattcatacagt 4218

Sbjct: 18477 tgtcagtctaatccatgtagaaatcaggccacctgtgtggatgaattaaattcatacagt 18418

Query: 4219 tgtaaatgtcagccaggattttcaggccaaaggtgtgaaacag 4261

Sbjct: 18417 tgtaaatgtcagccaggattttcaggcaaaaggtgtgaaacag 18375

Score = 272 bits (137), Expect = 4e-69

Identities = 137/137 (100%)

Strand = Plus / Minus

Query: 2036 caggggctgaattggtcattaccagaagtcatacacaaggagaccttttccctcaagggg 2095

Sbjct: 53970 caggggctgaattggtcattaccagaagtcatacacaaggagaccttttccctcaagggg 53911

Query: 2096 agactatagtacagtatacagccactgacccctcaggcaataacaggacatgtgatatcc 2155

Sbjct: 53910 agactatagtacagtatacagccactgacccctcaggcaataacaggacatgtgatatcc 53851

Query: 2156 atattgtcataaaaggt 2172

Sbjct: 53850 atattgtcataaaaggt 53834

Score = 262 bits (132), Expect = 4e-66

Identities = 132/132 (100%)

Strand = Plus / Minus

Query: 1799 aggtgtcagtccacgttcatccagctttcaccccaccttaccttttcccaattggagatg 1858

Sbjct: 61256 aggtgtcagtccacgttcatccagctttcaccccaccttaccttttcccaattggagatg 61197

Query: 1859 ttgctatcgtatacacggcaactgacctatccggcaaccaggccagctgcattttccata 1918

Sbjct: 61196 ttgctatcgtatacacggcaactgacctatccggcaaccaggccagctgcattttccata 61137

Query: 1919 tcaaggttattg 1930

Sbjct: 61136 tcaaggttattg 61125

Score = 254 bits (128), Expect = 1e-63

Identities = 128/128 (100%)

Strand = Plus / Minus

Query: 4639 ggtggtggttagttctggggcaagagcaagacaaaaaggagagggattcagccca 4698

Sbjct: 7980 ggtggtggttagttctggggcaagagcaagacaaaaaaggagggattcagccca 7921

Query: 4699 gctgagtcttttgtgggctccataagccagctcaacctctgggactatgtcctgtctcca 4758

Sbjct: 7920 gctgagtcttttgtgggctccataagccagctcaacctctgggactatgtcctgtctcca 7861

Query: 4759 cagcaggt 4766

Sbjct: 7860 cagcaggt 7853

Score = 252 bits (127), Expect = 4e-63

Identities = 127/127 (100%)

Strand = Plus / Minus

Query: 4762 caggtgaagtcactggctacctcctgcccagaggaactcagtaaaggaaacgtgttagca 4821

Sbjct: 6842 caggtgaagtcactggctacctcctgcccagaggaactcagtaaaggaaacgtgttagca 6783

Query: 4822 tggcctgatttcttgtcaggaattgtggggaaagtgaagatcgattctaagagcatattt 4881

Sbjct: 6782 tggcctgatttcttgtcaggaattgtggggaaagtgaagatcgattctaagagcatattt 6723

Query: 4882 tgttctg 4888

Sbjct: 6722 tgttctg 6716

Score = 246 bits (124), Expect = 2e-61
Identities = 124/124 (100%)
Strand = Plus / Minus

Query: 2366 aaaaacgttttgcaaaccacgggttcaagtcctttgagatgttctacaaagcagctcgtt 2425

Query: 2426 gtgatgacacagatctgatgaagaagttttctgaagcatttgagacgaccctgggaaaaa 2485

Query: 2486 tggt 2489

Sbjct: 51111 tggt 51108

Score = 244 bits (123), Expect = 1e-60

Identities = 123/123 (100%)

Strand = Plus / Minus

Query: 1680 agacgtggaggctcctcaaatcaactgtcctaaggacatagaggctaagactctggaaca 1739

Sbjct: 68410 agacgtggaggctcctcaaatcaactgtcctaaggacatagaggctaagactctggaaca 68351

Query: 1740 gcaagattctgccaatgttacctggcagattccaacagctaaagacaactctggtgaaaa 1799

Sbjct: 68350 gcaagattctgccaatgttacctggcagattccaacagctaaagacaactctggtgaaaa 68291

Query: 1800 ggt 1802

Sbjct: 68290 ggt 68288

Score = 240 bits (121), Expect = 2e-59

Identities = 121/121 (100%)

Strand = Plus / Minus

Query: 5233 gatgtcgatgagtgtgcagttggatcagattgtagtgagcatgcttcttgcctgaacgta 5292

Sbjct: 3510 gatgtcgatgagtgtgcagttggatcagattgtagtgagcatgcttcttgcctgaacgta 3451

Query: 5293 gatggatcctacatatgttcatgtgtcccaccgtacacaggagatgggaaaaactgtgca 5352

Sbjct: 3450 gatggatcctacatatgttcatgtgtcccaccgtacacaggagatgggaaaaactgtgca 3391

Query: 5353 g 5353

Sbjct: 3390 g 3390

Score = 234 bits (118), Expect = 9e-58

Identities = 118/118 (100%)

Strand = Plus / Minus

Query: 3672 aggcttaaagtgtgaaacagacatcgatgagtgcagcccactgccttgcctcaacaatgg 3731

Sbjct: 27180 aggcttaaagtgtgaaacagacatcgatgagtgcagcccactgccttgcctcaacaatgg 27121

Query: 3732 agtttgtaaagacctagttggggaattcatttgtgagtgcccatcaggttacacaggt 3789

Sbjct: 27120 agtttgtaaagacctagttggggaattcatttgtgagtgcccatcaggttacacaggt 27063

Score = 234 bits (118), Expect = 9e-58

Identities = 118/118 (100%)

Strand = Plus / Minus

Query: 3845 gaatctgtgttgatggtgtggctggctatcgttgcacatgtgtgaaaggatttgtagg 3902

Sbjct: 22820 gaatctgtgttgatggtggctggctatcgttgcacatgtgtgaaaggatttgtagg 22763

Score = 226 bits (114), Expect = 2e-55

Identities = 114/114 (100%)

Strand = Plus / Minus

Query: 2487 ggtcccatcattttgtagtgatgcagaggacattgactgcagactggaggagaacctgac 2546

Sbjct: 47791 ggtcccatcattttgtagtgatgcagaggacattgactgcagactggaggagaacctgac 47732

Query: 2547 caaaaaatattgcctagaatataattatgactatgaaaatggctttgcaattgg 2600

Sbjct: 47731 caaaaaatattgcctagaatataattatgactatgaaaatggctttgcaattgg 47678

Score = 218 bits (110), Expect = 6e-53
Identities = 110/110 (100%)
Strand = Plus / Minus

Query: 1930 gatgcagaaccacctgtcatagactggtgcagatctccacctcccgtccaggtctcggag 1989

Sbjct: 55169 gatgcagaaccacctgtcatagactggtgcagatctccacctcccgtccaggtctcggag 55110

Query: 1990 aaggtacatgccgcaagctgggatgagcctcagttctcagacaactcagg 2039

Sbjct: 55109 aaggtacatgccgcaagctgggatgagcctcagttctcagacaactcagg 55060

Score = 198 bits (100), Expect = 5e-47

Identities = 100/100 (100%)
Strand = Plus / Minus

Query: 3575 aggttttccatgaatgcttctttaacccttgccacaatagtggaacctgccagcaacttg 3634

Sbjct: 28829 aggttttccatgaatgcttctttaacccttgccacaatagtggaacctgccagcaacttg 28770

Query: 3635 ggcgtggttatgtttgtctctgtccacttggatatacagg 3674

Sbjct: 28769 ggcgtggttatgtttgtctctgtccacttggatatacagg 28730

Score = 184 bits (93), Expect = 8e-43

Identities = 93/93 (100%)
Strand = Plus / Minus

Query: 3485 gttttagttcaactttctcagcggcagaggaaagtgtggtgccccttgcctctttggac 3544

Sbjct: 30037 gttttagttcaactttctcagcggcagaggaaagtgtggtgccccctgcctctcttggac 29978

Query: 3545 atattaaaaagaggcatgaaatcagcagtcagg 3577

Sbjct: 29977 atattaaaaagaggcatgaaatcagcagtcagg 29945

Score = 180 bits (91), Expect = 1e-41

Identities = 94/95 (98%)
Strand = Plus / Minus

Query: 5523 ttgtaaagctgtttcatgtggtaaaccggctattccagaaaatggttgcattgaggagtt 5582

Sbjct: 1487 ttgttaagctgtttcatgtggtaaaccggctattccagaaaatggttgcattgaggagtt 1428

## 

Sequences producing significant alignments:	Score (bits)	E Value	
AL592463.10.1.96779 AL354982.12.1.119077 AL158158.14.1.194835  1053 470 347			
>AL592463.10.1.96779 Length = 96779			
<pre>Score = 1053 bits (531), Expect = 0.0 Identities = 531/531 (100%) Strand = Plus / Minus</pre>			
Query: 1 atgtggcctcgcctggccttttgttgctggggtctggcgctcgtttcgggctg	ggcgacc	60	
Sbjct: 33941 atgtggcctcgcctggccttttgttgctggggtctggcgctcgtttcgggctg	ggcgacc	33882	
Query: 61 tttcagcagatgtccccgtcgcgcaatttcagcttccgcctcttccccgagac	cgcgccc	120	
Sbjct: 33881 tttcagcagatgtccccgtcgcgcaatttcagcttccgcctcttccccgagac	cgcgccc	33822	
Query: 121 ggggcccccgggagtatccccgcgcccgctcctggcgacgaagcggcggg			
Sbjct: 33821 ggggcccccgggagtatccccgcgcccgctcctggcgacgaagcggcggg	gagcaga	33762	
Query: 181 gtggagcggctgggccaggcgttccggcgacgcgtgcggctgctgcgggagct		240	
Sbjct: 33761 gtggagcggctgggccaggcgttccggcgacgcgtgcggctgctgcgggagct	cagcgag	33702	
Query: 241 cgcctggagcttgtcttcctggtggatgattcgtccagcgtgggcgaagtcaa			
Sbjct: 33701 cgcctggagcttgtcttcctggtggatgattcgtccagcgtgggcgaagtcaa			
Query: 301 agcgagctcatgttcgtccgcaagctgctgtccgacttccccgtggtgcccacd			
Query: 361 cgcgtggccatcgtgaccttctcgtccaagaactacgtggtgccgcgcgtcga 			
Query: 421 tccacccgccgcgcgccagcacaagtgcgcgctgctcctccaagagatccc			

Query: 481 tcctaccgaggtggcggcacctacaccaagggcgccttccagcaagccgcg 531

Sbjct: 33461 tcctaccgaggtggcggcacctacaccaagggcgccttccagcaagccgcg 33411

Score = 509 bits (257), Expect = e-141

Identities = 257/257 (100%)

Strand = Plus / Minus

Query: 531 gcaaattcttcttcatgctagagaaaactcaacaaaagttgtatttctcatcactgatgg 590

Sbjct: 4503 gcaaattcttcttcatgctagagaaaactcaacaaaagttgtatttctcatcactgatgg 4444

Sbjct: 4443 atattccaatgggggagaccctagaccaattgcagcgtcactgcgagattcaggagtgga 4384

Query: 651 gatcttcacttttggcatatggcaagggaacattcgagagctgaatgacatggcttccac 710

Sbjct: 4323 cccaaaggaggagcactgttacctgctacacagttttgaagaatttgaggctttagctcg 4264

Query: 771 ccgggcattgcatgaag 787

Sbjct: 4263 ccgggcattgcatgaag 4247

Score = 355 bits (179), Expect = 2e-94

Identities = 179/179 (100%)

Strand = Plus / Minus

Query: 786 agatctaccttctgggagttttattcaagatgatatggtccactgctcatatctttgtga 845

Sbjct: 691 agatctaccttctgggagttttattcaagatgatatggtccactgctcatatctttgtga 632

Query: 906 ttttgagtgcatctgtgaaaaggggtattacgggaaaggtctgcagtatgaatgcacag 964

Sbjct: 571 ttttgagtgcatctgtgaaaaggggtattacgggaaaggtctgcagtatgaatgcacag 513

>AL354982.12.1.119077 Length = 119077

Score = 470 bits (237), Expect = e-129 Identities = 237/237 (100%)

Strand = Plus / Minus

Query: 2762 cagctagtgtgccattacccgatgaaagaaatgatacccttgaatgggaaaatcagcaac 2821

Sbjct: 43075 cagctagtgtgccattacccgatgaaagaaatgatacccttgaatgggaaaatcagcaac 43016

Query: 2822 gactccttcagacattggaaactatcacaaataaactgaaaaggactctcaacaaagacc 2881

Sbjct: 43015 gactccttcagacattggaaactatcacaaataaactgaaaaggactctcaacaaagacc 42956

Query: 2882 ccatgtattcctttcagcttgcatcagaaatacttatagccgacagcaattcattagaaa 2941

Sbjct: 42955 ccatgtattcctttcagcttgcatcagaaatacttatagccgacagcaattcattagaaa 42896

Query: 2942 caaaaaaggcttcccccttctgcagaccaggctcagtgctgagagggcgtatgtgtg 2998

Sbjct: 42895 caaaaaaaggcttccccttctgcagaccaggctcagtgctgagagggcgtatgtgtg 42839

Score = 406 bits (205), Expect = e-110

Identities = 205/205 (100%)

Strand = Plus / Minus

Query: 4259 cagaacagtctacaggctttaacctggattttgaagtttctggcatctatggatatgtca 4318

Sbjct: 17516 cagaacagtctacaggctttaacctggattttgaagtttctggcatctatggatatgtca 17457

Query: 4319 tgctagatggcatgctcccatctctccatgctctaacctgtaccttctggatgaaatcct 4378

Sbjct: 17456 tgctagatggcatgctccatctctccatgctctaacctgtaccttctggatgaaatcct 17397

Query: 4379 ctgacgacatgaactatggaacaccaatctcctatgcagttgataacggcagcgacaata 4438

Sbjct: 17396 ctgacgacatgaactatggaacaccaatctcctatgcagttgataacggcagcgacaata 17337

Query: 4439 ccttgctcctgactgattataacgg 4463

Sbjct: 17336 ccttgctcctgactgattataacgg 17312

Score = 404 bits (204), Expect = e-109
Identities = 204/204 (100%)
Strand = Plus / Minus

Query: 3900 aggcctgcattgtgaaacagaagtcaatgaatgccagtcaaacccatgcttaaataatgc 3959

Sbjct: 21737 aggcctgcattgtgaaacagaagtcaatgaatgccagtcaaacccatgcttaaataatgc 21678

Query: 3960 agtctgtgaagaccaggttgggggattcttgtgcaaatgcccacctggatttttgggtac 4019

Sbjct: 21677 agtctgtgaagaccaggttgggggattcttgtgcaaatgcccacctggatttttgggtac 21618

Query: 4020 ccgatgtggaaagaacgtcgatgagtgtctcagtcagccatgcaaaaatggagctacctg 4079

Sbjct: 21617 ccgatgtggaaagaacgtcgatgagtgtctcagtcagccatgcaaaaatggagctacctg 21558

Query: 4080 taaagacggtgccaatagcttcag 4103

Sbjct: 21557 taaagacggtgccaatagcttcag 21534

Score = 394 bits (199), Expect = e-106

Identities = 199/199 (100%)

Strand = Plus / Minus

Query: 1483 gagcgccactgttccacctttcagatgcccaaagatgtcatcatatccccccacaactgt 1542

Sbjct: 70714 gagcgccactgttccacctttcagatgcccaaagatgtcatcatatccccccacaactgt 70655

Query: 1543 ggcaagcagccaaatttgggacgatctgctatgtaagttgccgccaagggttcatt 1602

 ${\tt Sbjct:}\ 70654\ {\tt ggcaagcagccagaccaaatttgggacgatctgctatgtaagttgccgccaagggttcatt}\ 70595$ 

Query: 1603 ttatctggagtcaaagaaatgctgagatgtaccacttctggaaaatggaatgtcggagtt 1662

Sbjct: 70594 ttatctggagtcaaagaaatgctgagatgtaccacttctggaaaatggaatgtcggagtt 70535

Query: 1663 caggcagctgtgtgtaaag 1681

Sbjct: 70534 caggcagctgtgtgtaaag 70516

Score = 391 bits (197), Expect = e-105
Identities = 197/197 (100%)
Strand = Plus / Minus

Query: 2169 aggttctccctgtgaaattccattcacacctgtaaatggggattttatatgcactccaga 2228

Sbjct: 52913 aggttctccctgtgaaattccattcacacctgtaaatggggattttatatgcactccaga 52854

Query: 2229 taatactggagtcaactgtacattaacttgcttggagggctatgatttcacagaagggtc 2288

Query: 2289 tactgacaagtattattgtgcttatgaagatggcgtctggaaaccaacatataccactga 2348

Sbjct: 52793 tactgacaagtattattgtgcttatgaagatggcgtctggaaaccaacatataccactga 52734

Query: 2349 atggccagactgtgcca 2365

Sbjct: 52733 atggccagactgtgcca 52717

Score = 361 bits (182), Expect = 3e-96
Identities = 182/182 (100%)

Strand = Plus / Minus

Query: 1302 agtaagaacatgtcctcatctccgccagccgaaacatggccacatcagctgttctacaag 1361

Sbjct: 74694 agtaagaacatgtcctcatctccgccagccgaaacatggccacatcagctgttctacaag 74635

Query: 1362 ggaaatgttatataagacaacatgtttggttgcctgtgatgaagggtacagactagaagg 1421

Sbjct: 74634 ggaaatgttatataagacaacatgtttggttgcctgtgatgaagggtacagactagaagg 74575

Query: 1422 cagtgataagcttacttgtcaaggaaacagccagtgggatgggccagaaccccggtgtgt 1481

Sbjct: 74574 cagtgataagcttacttgtcaaggaaacagccagtgggatgggccagaaccccggtgtgt 74515

Query: 1482 gg 1483

Sbjct: 74514 gg 74513

Score = 357 bits (180), Expect = 5e-95
Identities = 180/180 (100%)
Strand = Plus / Minus

Query: 1124 ttgtccactgccctgccctgaagcctcccgaaaatggttactttatccaaaacacttgca 1183

Sbjct: 84580 ttgtccactgccctgaagcctcccgaaaatggttactttatccaaaacacttgca 84521

Query: 1184 acaaccacttcaatgcagcctgtggggtccgatgtcaccctggatttgatcttgtgggaa 1243

Sbjct: 84520 acaaccacttcaatgcagcctgtggggtccgatgtcaccctggatttgatcttgtgggaa 84461

Query: 1244 gcagcatcatcttatgtctacccaatggtttgtggtccggttcagagagctactgcagag 1303

Sbjct: 84460 gcagcatcatcttatgtctacccaatggtttgtggtccggttcagagagctactgcagag 84401

Score = 355 bits (179), Expect = 2e-94 Identities = 179/179 (100%)

Strand = Plus / Minus

Query: 4463 gctgggttctttatgtgaatggcagggaaaagataacaaactgtccctcggtgaatgatg 4522

Query: 4523 gcagatggcatcatattgcaatcacttggacaagtgccaatggcatctggaaagtctata 4582

Sbjct: 15136 gcagatggcatcatattgcaatcacttggacaagtgccaatggcatctggaaagtctata 15077

Query: 4583 tcgatgggaaattatctgacggtggtgctggcctctctgttggtttgcccatacctggt 4641

Sbjct: 15076 tcgatgggaaattatctgacggtggtgctggcctctctgttggtttgcccatacctggt 15018

Score = 355 bits (179), Expect = 2e-94

Identities = 179/179 (100%)

Strand = Plus / Minus

Query: 786 agatctaccttctgggagttttattcaagatgatatggtccactgctcatatctttgtga 845

Sbjct: 117768 agatctaccttctgggagttttattcaagatgatatggtccactgctcatatctttgtga 117709

Query: 906 ttttgagtgcatctgtgaaaaggggtattacgggaaaggtctgcagtatgaatgcacag 964

Sbjct: 117648 ttttgagtgcatctgtgaaaaggggtattacgggaaaggtctgcagtatgaatgcacag 117590

Score = 345 bits (174), Expect = 2e-91

Identities = 174/174 (100%)

Strand = Plus / Minus

Query: 5060 gcattagctgtggggtgccacctcctttggagaatggcttccattcagccgatgacttct 5119

Sbjct: 4110 gcattagctgtggggtgccacctcctttggagaatggcttccattcagccgatgacttct 4051

Query: 5180 ggatgttctgtacagataatgggagctggaacggcgtttcaccatcctgccttg 5233

Sbjct: 3990 ggatgttctgtacagataatgggagctggaacggcgtttcaccatcctgccttg 3937

Score = 343 bits (173), Expect = 7e-91

Identities = 173/173 (100%)

Strand = Plus / Minus

Ouery: 4888 gattgcccacgcttaggagggtcagtgcctcatctgagaactgcatctgaagatttaaag 4947

Sbjct: 5982 gattgcccacgcttaggagggtcagtgcctcatctgagaactgcatctgaagatttaaag 5923

Query: 4948 ccaggttccaaagtcaatctgttctgtgatccaggcttccagctggtcgggaaccctgtg 5007

Sbjct: 5922 ccaggttccaaagtcaatctgttctgtgatccaggcttccagctggtcgggaaccctgtg 5863

Query: 5008 cagtactgtctgaatcaaggacagtggacacaaccacttcctcactgtgaacg 5060

Sbjct: 5862 cagtactgtctgaatcaaggacagtggacacaaccacttcctcactgtgaacg 5810

Score = 339 bits (171), Expect = 1e-89

Identities = 174/175 (99%)

Strand = Plus / Minus

Query: 5352 agaacctataaaatgtaaggctccaggaaaatccggaaaatggccactcctcaggtgagat 5411

Sbjct: 1927 agaacctataaaatgtaaggctccaggaaatccggaaaatggccactcctcaggtgagat 1868

Score = 329 bits (166), Expect = 1e-86
Identities = 166/166 (100%)
Strand = Plus / Minus

Query: 3321 agttccttgtccagaaggaaaattctcgcgttctgggttaatgccctgtcacccatgtcc 3380

Sbjct: 30590 agttccttgtccagaaggaaaattctcgcgttctgggttaatgccctgtcacccatgtcc 30531

Query: 3381 tcgtgactattaccaacctaatgcagggaaggccttctgcctggcctgtcccttttatgg 3440

Sbjct: 30530 tcgtgactattaccaacctaatgcagggaaggccttctgcctggcctgtcccttttatgg 30471

Query: 3441 aactaccccattcgctggttccagatccatcacagaatgttcaagt 3486

Sbjct: 30470 aactaccccattcgctggttccagatccatcacagaatgttcaagt 30425

Score = 329 bits (166), Expect = 1e-86
Identities = 166/166 (100%)
Strand = Plus / Minus

Query: 2599 ggaccaggtggctggggtgcagctaataggctggattactcttacgatgacttcctggac 2658

Sbjct: 43799 ggaccaggtggctggggtgcagctaataggctggattactcttacgatgacttcctggac 43740

Query: 2659 actgtgcaagaaacagccacaagcatcggcaatgccaagtcctcacggattaaaagaagt 2718

Sbjct: 43739 actgtgcaagaaacagccacaagcatcggcaatgccaagtcctcacggattaaaagaagt 43680

Query: 2719 gccccattatctgactataaaattaagttaatttttaacatcacag 2764

Sbjct: 43679 gccccattatctgactataaaattaagttaatttttaacatcacag 43634

Score = 325 bits (164), Expect = 2e-85
Identities = 164/164 (100%)
Strand = Plus / Minus

Query: 960 cacagcttgcccatcggggacatacaaacctgaaggctcaccaggaggaatcagcagttg 1019

Sbjct: 85586 cacagettgcccatcggggacatacaaacctgaaggctcaccaggaggaatcagcagttg 85527

Query: 1020 cattccatgtcctgatgaaaatcacacctctccacctggaagcacatcccctgaagactg 1079

Sbjct: 85526 cattccatgtcctgatgaaaatcacacctctccacctggaagcacatcccctgaagactg 85467

Query: 1080 tgtctgcagagagggatacagggcatctggccagacctgtgaac 1123

Sbjct: 85466 tqtctqcaqaqqqqatacaqqqcatctqqccagacctqtgaac 85423

Score = 325 bits (164), Expect = 2e-85
Identities = 164/164 (100%)
Strand = Plus / Minus

Query: 3159 agctcagtgtaaacaaggcacctactcatacagtggacttgagacttgtgaatcgtgtcc 3218

Sbjct: 37503 agctcagtgtaaacaaggcacctactcatacagtggacttgagacttgtgaatcgtgtcc 37444

Query: 3219 actgggcacttatcagccaaaatttggttcccggagctgcctctcgtgtccagaaaacac 3278

Sbjct: 37443 actgggcacttatcagccaaaatttggttcccggagctgcctctcgtgtccagaaaacac 37384

Query: 3279 ctcaactgtgaaaagaggagccgtgaacatttctgcatgtggag 3322

Sbjct: 37383 ctcaactgtgaaaagaggagccgtgaacatttctgcatgtggag 37340

Score = 323 bits (163), Expect = 7e-85 Identities = 163/163 (100%)

Strand = Plus / Minus

Query: 2998 gtcaattgccctttgggaacctattataatctggaacatttcacctgtgaaagctgccgg 3057

Sbjct: 40577 gtcaattgccctttgggaacctattataatctggaacatttcacctgtgaaagctgccgg 40518

Query: 3058 atcggatcctatcaagatgaagaagggcaacttgagtgcaagctttgcccctctgggatg 3117

Sbjct: 40517 atcggatcctatcaagatgaagaagggcaacttgagtgcaagctttgcccctctgggatg 40458

Query: 3118 tacacggaatatatccattcaagaaacatctctgattgtaaag 3160

Sbjct: 40457 tacacggaatatatccattcaagaaacatctctgattgtaaag 40415

Score = 315 bits (159), Expect = 2e-82

Identities = 162/163 (99%)

Strand = Plus / Minus

Query: 4099 ttcagatgcctgtgtgcagctggcttcacaggatcacactgtgaattgaacatcaatgaa 4158

Sbjct: 18537 ttcagatgcctgtgtgcagctggcttcacaggatcacactgtgaattgaacatcaatgaa 18478

Query: 4159 tgtcagtctaatccatgtagaaatcaggccacctgtgtggatgaattaaattcatacagt 4218

Sbjct: 18477 tgtcagtctaatccatgtagaaatcaggccacctgtgtggatgaattaaattcatacagt 18418

Query: 4219 tgtaaatgtcagccaggattttcaggccaaaggtgtgaaacag 4261

Sbjct: 18417 tgtaaatgtcagccaggattttcaggcaaaaggtgtgaaacag 18375

Score = 272 bits (137), Expect = 2e-69

Identities = 137/137 (100%)

Strand = Plus / Minus

Query: 2036 caggggctgaattggtcattaccagaagtcatacacaaggagaccttttccctcaagggg 2095

Sbjct: 53970 caggggctgaattggtcattaccagaagtcatacacaaggagaccttttccctcaagggg 53911

Query: 2096 agactatagtacagtatacagccactgacccctcaggcaataacaggacatgtgatatcc 2155

Sbjct: 53910 agactatagtacagtatacagccactgacccctcaggcaataacaggacatgtgatatcc 53851

Query: 2156 atattgtcataaaaggt 2172

Sbjct: 53850 atattgtcataaaaggt 53834

Score = 262 bits (132), Expect = 2e-66

Identities = 132/132 (100%)

Strand = Plus / Minus

Query: 1799 aggtgtcagtccacgttcatccagctttcaccccaccttaccttttcccaattggagatg 1858

Sbjct: 61256 aggtgtcagtccacgttcatccagctttcaccccaccttaccttttcccaattggagatg 61197

Query: 1859 ttgctatcgtatacacggcaactgacctatccggcaaccaggccagctgcattttccata 1918

Sbjct: 61196 ttgctatcgtatacacggcaactgacctatccggcaaccaggccagctgcattttccata 61137

Query: 1919 tcaaggttattg 1930

Sbjct: 61136 tcaaggttattg 61125

Score = 254 bits (128), Expect = 5e-64

Identities = 128/128 (100%)

Strand = Plus / Minus

Query: 4639 ggtggtggtgcgttagttctggggcaagagcaagacaaaaaaggagggattcagccca 4698

Sbjct: 7980 ggtggtggtgcgttagttctggggcaagagcaagacaaaaaggaggggattcagccca 7921

Query: 4699 gctgagtcttttgtgggctccataagccagctcaacctctgggactatgtcctgtctcca 4758

Sbjct: 7920 gctgagtcttttgtgggctccataagccagctcaacctctgggactatgtcctgtctcca 7861

Query: 4759 cagcaggt 4766

Sbjct: 7860 cagcaggt 7853

Score = 252 bits (127), Expect = 2e-63

Identities = 127/127 (100%)

Strand = Plus / Minus

Query: 4762 caggtgaagtcactggctacctcctgcccagaggaactcagtaaaggaaacgtgttagca 4821

Sbjct: 6842 caggtgaagtcactggctacctcctgcccagaggaactcagtaaaggaaacgtgttagca 6783

Ouery: 4822 tggcctgatttcttgtcaggaattgtggggaaagtgaagatcgattctaagagcatattt 4881

Sbjct: 6782 tggcctgatttcttgtcaggaattgtggggaaagtgaagatcgattctaagagcatattt 6723

Query: 4882 tgttctg 4888

Sbjct: 6722 tgttctg 6716

Score = 246 bits (124), Expect = 1e-61
Identities = 124/124 (100%)
Strand = Plus / Minus

Query: 2366 aaaaacgttttgcaaaccacgggttcaagtcctttgagatgttctacaaagcagctcgtt 2425

Sbjct: 51231 aaaaacgttttgcaaaccacgggttcaagtcctttgagatgttctacaaagcagctcgtt 51172

Query: 2426 gtgatgacacagatctgatgaagaagttttctgaagcatttgagacgaccctgggaaaaa 2485

Query: 2486 tggt 2489

Sbjct: 51111 tggt 51108

Score = 244 bits (123), Expect = 5e-61

Identities = 123/123 (100%)

| | | | |

Strand = Plus / Minus

Query: 1680 agacgtggaggctcctcaaatcaactgtcctaaggacatagaggctaagactctggaaca 1739

Sbjct: 68410 agacgtggaggctcctcaaatcaactgtcctaaggacatagaggctaagactctggaaca 68351

Query: 1740 gcaagattctgccaatgttacctggcagattccaacagctaaagacaactctggtgaaaa 1799

Sbjct: 68350 gcaagattctgccaatgttacctggcagattccaacagctaaagacaactctggtgaaaa 68291

Query: 1800 ggt 1802

Sbjct: 68290 ggt 68288

Score = 240 bits (121), Expect = 8e-60

Identities = 121/121 (100%)

Strand = Plus / Minus

Query: 5233 gatgtcgatgagtgtgcagttggatcagattgtagtgagcatgcttcttgcctgaacgta 5292

Sbjct: 3510 gatgtcgatgagtgtgcagttggatcagattgtagtgagcatgcttcttgcctgaacgta 3451

Query: 5293 gatggatcctacatatgttcatgtgtcccaccgtacacaggagatgggaaaaactgtgca 5352

Sbjct: 3450 gatggatcctacatatgttcatgtgtccaccgtacacaggagatgggaaaaactgtgca 3391

Query: 5353 g 5353

Sbjct: 3390 g 3390

Score = 234 bits (118), Expect = 5e-58

Identities = 118/118 (100%)

Strand = Plus / Minus

Query: 3672 aggettaaagtgtgaaacagacatcgatgagtgcagcccactgccttgcctcaacaatgg 3731

Sbjct: 27180 aggcttaaagtgtgaaacagacatcgatgagtgcagcccactgccttgcctcaacaatgg 27121

Query: 3732 agtttgtaaagacctagttggggaattcatttgtgagtgcccatcaggttacacaggt 3789

Sbjct: 27120 agtttgtaaagacctagttggggaattcatttgtgagtgcccatcaggttacacaggt 27063

Score = 234 bits (118), Expect = 5e-58

Identities = 118/118 (100%)

Strand = Plus / Minus

Query: 3845 gaatctgtgttgatggtgtggctggctatcgttgcacatgtgtgaaaggatttgtagg 3902

Sbjct: 22820 gaatctgtgttgatggtggctggctatcgttgcacatgtgtgaaaggatttgtagg 22763

Score = 226 bits (114), Expect = 1e-55

Identities = 114/114 (100%)

Strand = Plus / Minus

Query: 2487 ggtcccatcattttgtagtgatgcagaggacattgactgcagactggaggagaacctgac 2546

Sbjct: 47791 ggtcccatcattttgtagtgatgcagaggacattgactgcagactggaggagaacctgac 47732

Query: 2547 caaaaaatattgcctagaatataattatgactatgaaaatggctttgcaattgg 2600

Sbjct: 47731 caaaaaatattgcctagaatataattatgactatgaaaatggctttgcaattgg 47678

Score = 218 bits (110), Expect = 3e-53
Identities = 110/110 (100%)
Strand = Plus / Minus

Query: 1930 gatgcagaaccacctgtcatagactggtgcagatctccacctcccgtccaggtctcggag 1989

Sbjct: 55169 gatgcagaaccacctgtcatagactggtgcagatctccacctcccgtccaggtctcggag 55110

Query: 1990 aaggtacatgccgcaagctgggatgagcctcagttctcagacaactcagg 2039

Sbjct: 55109 aaggtacatgccgcaagctgggatgagcctcagttctcagacaactcagg 55060

Score = 198 bits (100), Expect = 3e-47

Identities = 100/100 (100%)
Strand = Plus / Minus

Query: 3575 aggttttccatgaatgcttctttaacccttgccacaatagtggaacctgccagcaacttg 3634

Sbjct: 28829 aggttttccatgaatgcttctttaacccttgccacaatagtggaacctgccagcaacttg 28770

Query: 3635 ggcgtggttatgtttgtctctgtccacttggatatacagg 3674

Sbjct: 28769 ggcgtggttatgtttgtctctgtccacttggatatacagg 28730

Score = 184 bits (93), Expect = 4e-43

Identities = 93/93 (100%)

Strand = Plus / Minus

Query: 3485 gttttagttcaactttctcagcggcagaggaaagtgtggtgccccctgcctctcttggac 3544

Sbjct: 30037 gttttagttcaactttctcagcggcagaggaaagtgtggtgccccctgcctctcttggac 29978

Query: 3545 atattaaaaagaggcatgaaatcagcagtcagg 3577

Sbjct: 29977 atattaaaaagaggcatgaaatcagcagtcagg 29945

>AL158158.14.1.194835 Length = 194835

Score = 347 bits (175), Expect = 5e-92
Identities = 175/175 (100%)
Strand = Plus / Minus

Query: 5352 agaacctataaaatgtaaggctccaggaaatccggaaaatggccactcctcaggtgagat 5411

Sbjct: 194762 agaacctataaaatgtaaggctccaggaaatccggaaaatggccactcctcaggtgagat 194703

Query: 5472 aaccaaaatcacatgtttggagtctggagaatggaatcatctaataccatattgt 5526

Sbjct: 194642 aaccaaaatcacatgtttggagtctggagaatggaatcatctaataccatattgt 194588





